



How much energy storage solar power generation in Brazil





Overview

Brazil's energy storage market remains a marginal one with an estimated capacity of 250MWh, comprising primarily of rural and rooftop installations (ETN, 2023). Solar PV-based distributed generation represents an attractive growth opportunity for the storage market. Data for 2025 include systems installed through June 30, 2025. Distributed solar generation capacity grew from less than 1 gigawatt (GW) in 2018 to 40 GW in 2025 through. Although Brazil continues to consolidate its position as a regional solar powerhouse, particularly in distributed generation, 2025 will mark a pause in the country's growth pace, with the market increasing only marginally to 19.6 GW was added to the system this year, a report by the country's solar energy association Absolar states. From under 1 gigawatt (GW) in 2018, this capacity has skyrocketed to an anticipated 40 GW by mid-2025, which accounts for 43% of the total. Decarbonisation of the energy sector will remain a top priority in Brazil, with a target to achieve a 45% share of renewables in primary energy demand by 2030 will require 81GW of renewables capacity, excluding hydropower, within that timeframe (CIF, 2021). This is expected to trigger the buildout.



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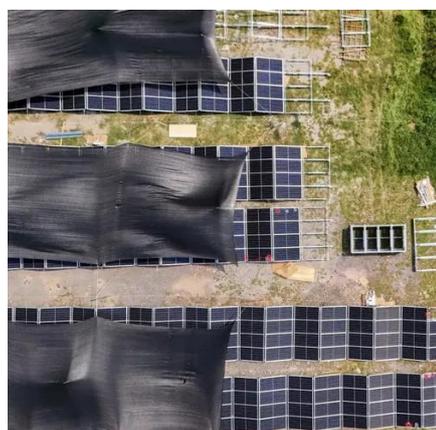


Brazil's Solar Capacity Surges to 40 GW by 2025

As of June 30, 2025, Brazil's total solar electric generation capacity reached 23% of its overall electricity capacity. Compared to distributed solar, utility-scale solar capacity remained much lower at 17.9 GW.

[Solar power generation is Brazil's 2nd largest source of electricity](#)

According to Absolar, the solar source has prevented the emission of around 66.6 million tons of carbon dioxide in electricity generation. The technology is currently the country's second ...



[Distributed solar generating capacity is the fastest-growing power](#)

In Brazil, solar photovoltaic dominates the distributed generation sector, representing 99% of the country's total distributed generation capacity. Small hydroelectric and wind account for ...

[Brazil's Solar Boom: Why Energy Storage is Key for Businesses in 2025](#)

Explore Brazil's 19.2GW solar growth in 2025 and why battery storage is crucial for businesses. Learn about DG opportunities, new regulations, and how DLCPO's lithium solutions ...



[Solar Energy in Brazil: From Opportunity to a 55 GW Reality](#)

Solar energy in Brazil surpassed the 55 GW milestone in March 2025, more than doubling its photovoltaic (PV) count in the last few years. That breakneck expansion is reshaping Brazil's energy ...

Solar Energy in Brazil: The Next Powerhouse , ISES

Starting with less than 50 MW at the beginning of the 2010s, mostly from isolated systems, solar photovoltaic power reached over 50 GW of installed capacity by early 2025--an ...



Brazil GES2024

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Solar power in Brazil



The total installed solar power in Brazil was estimated at 53.9 GW at February 2025, which consists of about 21.9% of the country's electricity matrix. In 2023, Brazil was the 6th country in the world in terms of installed solar power capacity (37.4 GW). Brazil expects to have 1.2 million solar power generation systems in the year 2024. Solar energy has great potential in Brazil, with the country having one of the highest ...



Brazil to add 19.2 GW of solar capacity in 2025

Transmission infrastructure limitations are notable challenges for large-scale projects. On the positive side, new energy storage regulations in 2025 are likely to further stimulate the sector.

Solar power in Brazil

Solar energy has great potential in Brazil, with the country having one of the highest levels of insolation in the world at 4.25 to 6.5 sun hours/day. [4] As of 2019, Brazil generated nearly 45% of its energy, or ...



Solar PV in Brazil

In the last five years, Brazil has increased its solar photovoltaic energy generating capacity by more than 6-fold. In 2020, the country's installed solar PV capacity stood at 8.5





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